

What we claim is as follows:

1. Process for producing a cold-rolled strip or sheet
of steel with good deforming properties, which is
5 subjected to recrystallizing annealing and, if
appropriate, a dressing operation after hot
rolling, coiling and cold rolling and has a bake-
hardening potential after a subsequent deformation
and for a subsequent temperature treatment,
10 characterized in that the recrystallizing annealing
is carried out in a bell-type furnace while coiled
and in that the strip or sheet is subjected to
cooling at a cooling rate of $\geq 1^\circ\text{C/s}$ after the
recrystallizing annealing from a temperature T of
15 $200^\circ\text{C} \leq T \leq A_1$.
2. Process according to Claim 1, characterized in that
the temperature is $T \geq 450^\circ\text{C}$.
- 20 3. Process according to Claim 1 or 2, characterized in
that the strip is cooled to $\leq 150^\circ\text{C}$ after the
recrystallizing annealing while coiled and
subsequently subjected to brief annealing at the
temperature T for an annealing period of
25 ≤ 20 minutes by reheating the uncoiled strip.
4. Process according to one of Claims 1 to 3,
characterized in that the annealing period of the
brief annealing is chosen between 2 minutes and
30 5 minutes.
5. Process according to one of Claims 1 to 4,
characterized in that the cooling from the
temperature T is performed at a cooling rate of
35 $\geq 2^\circ\text{C/s}$.
6. Process according to one of Claims 1 to 5,
characterized in that the strip or sheet is dressed
before the brief annealing.

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7. Process according to one of Claims 1 to 6, characterized in that the strip or sheet is dressed after the brief annealing.
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8. Process according to one of Claims 1 to 6, characterized in that hot galvanizing of the sheet or strip is used as part of the brief annealing.
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9. Process according to one of Claims 1 to 8, characterized in that a steel with a C content of $\geq 0.02\%$ is used.
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10. Process according to one of Claims 1 to 9, characterized by the use of a steel grade which has been selected from the steel grades St12 to St15, ZStE and ZStE1.
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11. Cold-rolled strip or sheet with good deforming properties, which can be produced by the process according to one of Claims 1 to 9, with a bake-hardening potential after a subsequent deformation and for a subsequent temperature treatment and with a C content of $\geq 0.02\%$ and with cementite precipitations in the matrix and at the grain boundaries.
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12. Strip or sheet according to Claim 11, produced from a steel of the steel grade St12, St13, St14 or St15.
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13. Strip or sheet according to Claim 11, produced from a steel of the steel grade ZStE1.
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14. Strip or sheet according to Claim 11, produced from a steel of the steel grade ZStE.

15. Strip or sheet according to one of Claims 11 to 14, characterized in that it has a hot-galvanized surface.

5 16. Strip or sheet according to Claim 15, characterized in that it is dressed after the hot galvanizing of the surface.

10 17. Stove-enamelled sheet, produced from a strip or sheet according to one of Claims 11 to 16, with a yield strength significantly increased by the stove-enamelling.

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